BRUHAT BANAGLORE MAHANAGARA PALIKE

Executive Engineer-Yelhanka Division

Detailed Estimate

Name of Work:Improvements to roads ,drains and footpath in ananthpura and Bhaskar reddy layout in ward no. 03 Yelhanka Satellite town subdivision

			Estimate Amount : 4500000.00						
Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	CIVIL WORKS								
1	**Removing BS Slab** of drain and Stacking **(Page No 25., I.No.5.32 of KPWD S.R 2015-16).**								
		Sqm							
	BS BOX DRAIN								
	cross road-2 nearAttur lake								
	Ch: (0 - 31.5)	L/s	1	31.5	1.50		47.25		
	Ch: (40 - 56)	L/s	1	16	1.50		24.00		
	Ch: (0 - 56)	R/s	1	56	1.50		84.00		
	cross road-3 nearAttur lake								
	Ch: (0 - 116)								
	Ch: (0 - 116)	L/s	1	116	1.50		174.00		
	Ch: (0 - 34)	R/s	1	34	1.50		51.00		
	Ch: (34 - 41)	R/s	CULVERT						
	Ch: (41 - 66)	R/s	1	25	1.50		37.50		
	Ch: (66 - 73)	R/s	CULVERT						
	Ch: (75 - 116)	R/s	1	41	1.50		61.50		
							479.25	**63.72**	**30537.81**
2	**Refixing Stone Slabs** of drains and Pointing in C.M(1:3) **(Page No 25., I.No.5.33 of KPWD S.R 2015-16).**								
		Sqm							
	BS BOX DRAIN								
	cross road-2 nearAttur lake								
	Ch: (0 - 31.5)	L/s	1	31.5	1.50		47.25		
	Ch: (40 - 56)	L/s	1	16	1.50		24.00		
	Ch: (0 - 56)	R/s	1	56	1.50		84.00		
	cross road-3 nearAttur lake								
	Ch: (0 - 116)								
	Ch: (0 - 116)	L/s	1	116	1.50		174.00		
	Ch: (0 - 34)	R/s	1	34	1.50		51.00		
	Ch: (34 - 41)	R/s	CULVERT						
	Ch: (41 - 66)	R/s	1	25	1.50		37.50		
	Ch: (66 - 73)	R/s	CULVERT						
	Ch: (75 - 116)	R/s	1	41	1.50		61.50		
							479.25		
	Deduction for damaged 10%						-47.93		
							431.33	**78.84**	**34005.66**

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
3	**Providing granite slabs** of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. 7.5cm thick**(Page No 25., I.No.5.31.1 of KPWD S.R 2015-16).**								
		Cum							
	New Box Drain								
	for damaged 10%						47.93		
							47.93	**663.12**	**31780.03**
4	KSRRB 300-1. **Earthwork excavation by manual means** in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **(Page No141., I.No.19.1 of KPWD S.R 2015-16).**								
		Cum							
	New Culverts								
	cross road-2 nearAttur lake								
	Ch: (0 - 56)		1	8.5	1.80	0.700	10.71		
	cross road-3 nearAttur lake								
	Ch: (0 - 116)								
			1	7	1.80	0.700	8.82		
	lead off drain								
	Ch: (26 - 36)		1	10	1.80	1.300	23.40		
	New RCC Drain								
	lead off drain								
	Ch: (0 - 26)		1	26	1.50	1.100	42.90		
	Ch: (36 - 53)		1	17	1.50	1.600	40.80		
	cross road-1 nearAttur lake								
	Ch: (0 - 63)		1	63	1.20	0.800	60.48		
	Desilting								
	cross road-2 nearAttur lake								
	Ch: (0 - 56)		2	56	0.60	0.500	33.60		
	cross road-3 nearAttur lake								
	Ch: (0 - 116)								
	Ch: (0 - 84)		2	84	0.60	0.500	50.40		
	Ch: (84 - 116)		2	32	0.60	0.500	19.20		
	cross road-4 nearAttur lake								
	Ch: (0 - 51)		2	51	0.60	0.500	30.60		
							320.91	**177.88**	**57083.47**
5	KSRB 4-1.2 : Providing and laying in **position plain cement concrete of mix1:3:6** with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregtes @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted,in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2 **(Page No 12., I.No.4.2 of KPWD S.R 2015-16).**								
		Cum							
	New Culverts								
	cross road-2 nearAttur lake								

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Ch: (0 - 56)		1	8.5	1.50	0.10	1.28		
	cross road-3 nearAttur lake								
	Ch: (0 - 116)								
			1	7	1.50	0.10	1.05		
	lead off drain								
	Ch: (26 - 36)		1	10	1.50	0.10	1.50		
	New RCC Drain								
	lead off drain								
	Ch: (0 - 26)		1	26	1.20	0.10	3.12		
	Ch: (36 - 53)		1	17	1.20	0.10	2.04		
	cross road-1 nearAttur lake								
	Ch: (0 - 63)		1	63	0.90	0.100	5.67		
							14.66	**5236.92**	**76747.06**
6	**KSRB 5-14 :** Providing and constructing precast concrete solid blocks with compressive strength not less than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with **solid concrete blocks of size 40x15x20cms** conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. **(Page No 25., I.No.5.34 of KPWD S.R 2015-16).**								
		Sqm							
	FLAGGING BS BOX DRAIN								
	cross road-2 nearAttur lake								
	Ch: (0 - 31.5)	L/s	1	31.5		0.400	12.60		
	Ch: (40 - 56)	L/s	1	16		0.400	6.40		
	Ch: (0 - 56)	R/s	1	56		0.400	22.40		
	cross road-3 nearAttur lake								
	Ch: (0 - 116)								
	Ch: (0 - 116)	L/s	1	116		0.400	46.40		
	Ch: (0 - 34)	R/s	1	34		0.400	13.60		
	Ch: (34 - 41)	R/s		CULVERT					
	Ch: (41 - 66)	R/s	1	25		0.400	10.00		
	Ch: (66 - 73)	R/s		CULVERT					
	Ch: (75 - 116)	R/s	1	41		0.400	16.40		
							127.80	**963.36**	**123117.41**
7	**KSRB 5.2-3. Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6,** stone hammered dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 **(Page No 23., I.No.5.6 of KPWD S.R 2015-16).**								
		Cum							
	FLAGGING BS BOX DRAIN								
	cross road-2 nearAttur lake								
	Ch: (0 - 31.5)	L/s	1	31.5	0.45	0.400	5.67		
	Ch: (40 - 56)	L/s	1	16	0.45	0.400	2.88		

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Ch: (0 - 56)	R/s	1	56	0.45	0.400	10.08		
	cross road-3 nearAttur lake								
	Ch: (0 - 116)								
	Ch: (0 - 116)	L/s	1	116	0.45	0.400	20.88		
	Ch: (0 - 34)	R/s	1	34	0.45	0.400	6.12		
	Ch: (34 - 41)	R/s	CULVERT						
	Ch: (41 - 66)	R/s	1	25	0.45	0.400	4.50		
	Ch: (66 - 73)	R/s	CULVERT						
	Ch: (75 - 116)	R/s	1	41	0.45	0.400	7.38		
							57.51	4135.32	237822.25
8	**KSRB 4-1.6 ;** Providing and laying in position plain cement concrete of mix **1:2:4 with cement @ 240kgs, with 20mm** and down size graded granite metal coarse aggregates @0.878cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 **(Page No 12., I.No.4.6 of KPWD S.R 2015-16).**									
		Sqm							
	COPING -SOLID BLOCK								
	cross road-2 nearAttur lake								
	Ch: (0 - 31.5)	L/s	1	31.5	0.15	0.075	0.35		
	Ch: (40 - 56)	L/s	1	16	0.15	0.075	0.18		
	Ch: (0 - 56)	R/s	1	56	0.15	0.075	0.63		
	cross road-3 nearAttur lake								
	Ch: (0 - 116)								
	Ch: (0 - 116)	L/s	1	116	0.15	0.075	1.31		
	Ch: (0 - 34)	R/s	1	34	0.15	0.075	0.38		
	Ch: (34 - 41)	R/s	1	CULVERT					
	Ch: (41 - 66)	R/s	1	25	0.15	0.075	0.28		
	Ch: (66 - 73)	R/s	1	CULVERT					
	Ch: (75 - 116)	R/s	1	41	0.15	0.075	0.46		
	COPING -SSM								
	cross road-2 nearAttur lake								
	Ch: (0 - 31.5)	L/s	1	31.5	0.45	0.075	1.06		
	Ch: (40 - 56)	L/s	1	16	0.45	0.075	0.54		
	Ch: (0 - 56)	R/s	1	56	0.45	0.075	1.89		
	cross road-3 nearAttur lake								
	Ch: (0 - 116)								
	Ch: (0 - 116)	L/s	1	116	0.45	0.075	3.92		
	Ch: (0 - 34)	R/s	1	34	0.45	0.075	1.15		
	Ch: (34 - 41)	R/s	1	CULVERT					
	Ch: (41 - 66)	R/s	1	25	0.45	0.075	0.84		

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Ch: (66 - 73)	R/s	1	CULVERT					
	Ch: (75 - 116)	R/s	1	41	0.45	0.075	1.38		
							14.38	**5490.72**	**78942.83**
9	Providing and laying Plain /reinforced cement concrete **M20** for Box drain walls of thickness 10cm to 20cm including centring shuttering for work etc. complete as per approved drawing and design MORTH specification No.1500,1700,2200 **(Page No258., I.No.37.59.2 of KPWD S.R 2015-16).**								
		Cum							
	Raft								
	New Culverts								
	cross road-2 nearAttur lake								
	Ch: (0 - 56)		1	8.5	1.50	0.20	2.55		
	cross road-3 nearAttur lake								
	Ch: (0 - 116)								
			1	7	1.50	0.20	2.10		
	lead off drain								
	Ch: (26 - 36)		1	10	1.50	0.20	3.00		
	New RCC Drain								
	lead off drain								
	Ch: (0 - 26)		1	26	1.20	0.20	6.24		
	Ch: (36 - 53)		1	17	1.20	0.20	4.08		
	cross road-1 nearAttur lake								
	Ch: (0 - 63)		1	63	0.90	0.150	8.51		
	Wall								
	New Culverts								
	cross road-2 nearAttur lake								
	Ch: (0 - 56)		2	8.5	0.20	0.90	3.06		
	cross road-3 nearAttur lake								
	Ch: (0 - 116)								
			2	7	0.20	0.90	2.52		
	lead off drain								
	Ch: (26 - 36)		2	10	0.20	1.30	5.20		
	New RCC Drain								
	lead off drain								
	Ch: (0 - 26)		2	26	0.20	1.30	13.52		
	Ch: (36 - 53)		2	17	0.20	1.80	12.24		
	cross road-1 nearAttur lake								
	Ch: (0 - 63)		2	63	0.15	0.900	17.01		
							80.03	**6931.44**	**554688.49**
10	KSRB 4.9.2 : Providing **T .M.T steel reinforcement** for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 for TMT Bars Fe500 **(Page No 17., I.No.4.46.2 of KPWD S.R 2015-16).**								
		Tonne							

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Taking 60kg/m3								
				80.025*60/1000			4.80		
							4.80	69805.80	335172.55
11	Providing precast slab of 250mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge- Data rate								
		Sqm							
	New Slabs								
	New Culverts								
	cross road-2 nearAttur lake								
	Ch: (0 - 56)		1	8.5	1.50		12.75		
	cross road-3 nearAttur lake								
	Ch: (0 - 116)								
			1	7	1.50		10.50		
	lead off drain								
	Ch: (26 - 36)		1	10	1.50		15.00		
							38.25	5111.00	195495.75
12	Providing precast slab of 100 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge- Data rate								
		Sqm							
	New Slabs								
	cross road-2 nearAttur lake								
	Ch: (0 - 31.5)	L/s	1	31.5	1.20		37.80		
	Ch: (40 - 56)	L/s	1	16	1.20		19.20		
	Ch: (0 - 56)	R/s	1	56	1.20		67.20		
	cross road-3 nearAttur lake								
	Ch: (0 - 116)								
	Ch: (0 - 116)	L/s	1	116	1.20		139.20		
	Ch: (0 - 34)	R/s	1	34	1.20		40.80		
	Ch: (34 - 41)	R/s	1	7					
	Ch: (41 - 66)	R/s	1	25	1.20		30.00		
	Ch: (66 - 73)	R/s	1	7					
	Ch: (75 - 116)	R/s	1	41	1.20		49.20		
	New RCC Drain								
	lead off drain								
	Ch: (0 - 26)		1	26	1.20		31.20		
	Ch: (36 - 53)		1	17	1.20		20.40		
	cross road-1 nearAttur lake								
	Ch: (0 - 63)		1	63	0.90		56.70		
							491.70	1834.00	901777.80

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	ROAD WORKS								
13	KSRRB M300-14. **Excavation for roadwork in all type of soil with hydraulic excavator** of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1.00 km and complete as per specifications. MORTH Specification No.301 **(Page No 142., I.No.19.14 of KPWD S.R 2015-16).**								
		Cum							
	cross road-1 nearAttur lake								
	Ch: (0 - 63)		1	63	5.00	0.425	133.88		
	cross road-2 nearAttur lake								
	Ch: (0 - 56)		1	56	5.00	0.425	119.00		
	cross road-3 nearAttur lake								
	Ch: (0 - 116)								
	Ch: (84 - 116)		1	32	6.50	0.425	88.40		
	cross road-4 nearAttur lake								
	Ch: (0 - 51)		1	51	5.00	0.425	108.38		
							449.65	**143.32**	**64443.84**
14	KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3 (Page No 148., I.No.19.64 of KPWD S.R 2015-16).								
		Sqm							
	cross road-1 nearAttur lake								
	Ch: (0 - 63)		1	63	5.00		315.00		
	cross road-2 nearAttur lake								
	Ch: (0 - 56)		1	56	5.00		280.00		
	cross road-3 nearAttur lake								
	Ch: (0 - 116)								
	Ch: (84 - 116)		1	32	6.50		208.00		
	cross road-4 nearAttur lake								
	Ch: (0 - 51)		1	51	5.00		255.00		
							1058.00	**4.86**	**5141.88**
15	KSRRB M400-6.1. Construction of **granular sub-base** by providing close graded material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method.Close graded granular sub-base material as per 400-1 For Grading- II Material **(Page No 154., I.No.20.4.2 of KPWD S.R 2015-16).**								
		Cum							
	cross road-1 nearAttur lake								
	Ch: (0 - 63)		1	63	5.00	0.150	47.25		
	cross road-2 nearAttur lake								
	Ch: (0 - 56)		1	56	5.00	0.150	42.00		

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	cross road-3 nearAttur lake								
	Ch: (0 - 116)								
	Ch: (84 - 116)		1	32	6.50	0.150	31.20		
	cross road-4 nearAttur lake								
	Ch: (0 - 51)		1	51	5.00	0.150	38.25		
							158.70	**1622.16**	**257436.79**
16	KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (Page No 157., I.No.20.18 of KPWD S.R 2015-16).								
		Cum							
	cross road-1 nearAttur lake								
	Ch: (0 - 63)		1	63	5.00	0.225	70.88		
	cross road-2 nearAttur lake								
	Ch: (0 - 56)		1	56	5.00	0.225	63.00		
	cross road-3 nearAttur lake								
	Ch: (0 - 116)								
	Ch: (84 - 116)		1	32	6.50	0.225	46.80		
	cross road-4 nearAttur lake								
	Ch: (0 - 51)		1	51	5.00	0.225	57.38		
							238.05	**1713.96**	**408008.18**
17	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WBM,WMM ,including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per Specifications. MORTH Specification No. 502 (Page No 160., I.No.21.6 of KPWD S.R 2015-16).								
		Sqm							
	cross road-1 nearAttur lake								
	Ch: (0 - 63)		1	63	5.00		315.00		
	cross road-2 nearAttur lake								
	Ch: (0 - 56)		1	56	5.00		280.00		
	cross road-3 nearAttur lake								
	Ch: (0 - 116)								
	Ch: (84 - 116)		1	32	6.50		208.00		
	cross road-4 nearAttur lake								
	Ch: (0 - 51)		1	51	5.00		255.00		
							1058.00	**32.40**	**34279.20**
18	KSRRB 500-2. **Cleaning the existing black topped** surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH / Chapter 5**(Page No 160., I.No.21.2 of KPWD S.R 2015-16).**								
		Sqm							
	cross road-3 nearAttur lake								

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Ch: (0 - 116)								
	Ch: (0 - 84)								
			1	84	5.00		420.00		
							420.00	**3.24**	**1360.80**
19	KSRRB 500-7. Providing and applying **tack coat** using 80/100 grade Bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm , heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5 **(Page No 160., I.No.21.7 of KPWD S.R 2015-16).**								
		Sqm							
	cross road-1 nearAttur lake								
	Ch: (0 - 63)		1	63	5.00		315.00		
	cross road-2 nearAttur lake								
	Ch: (0 - 56)		1	56	5.00		280.00		
	cross road-3 nearAttur lake								
	Ch: (0 - 116)								
	Ch: (0 - 84)		1	84	5.00		420.00		
	Ch: (84 - 116)		1	32	6.50		208.00		
	cross road-4 nearAttur lake								
	Ch: (0 - 51)		1	51	5.00		255.00		
							1478.00	**15.12**	**22347.36**
20	KSRRB MS00- 15. Providing, laying **dense graded bituminous macadam** using 40/60 THP capacity H.M.P with Mechanical paver Gr-II(50mm to 75mm), crushed aggregates of specified grading premixed with 4.5% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade, rolling with wheeled , vibratory and tandeem rollers to achieve the desired density including all leads and lift cost of all materials, labour, HOM of machineries complete as per specifications MORTH Specification No.507 **(Page No 161., I.No.21.17.6 of KPWD S.R 2015-16).**								
		Cum							
	cross road-1 nearAttur lake								
	Ch: (0 - 63)		1	63	5.00	0.050	15.75		
	cross road-2 nearAttur lake								
	Ch: (0 - 56)		1	56	5.00	0.050	14.00		
	cross road-3 nearAttur lake								
	Ch: (0 - 116)								
	Ch: (0 - 84)								
	Ch: (84 - 116)		1	32	6.50	0.050	10.40		
	cross road-4 nearAttur lake								
	Ch: (0 - 51)		1	51	5.00	0.050	12.75		
	Profile correction								
	cross road-3 nearAttur lake								
	Ch: (0 - 116)								
	Ch: (0 - 84)		1	84	5.00	0.050	2.10		
	taking 10% of the area								

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
							55.00	7927.20	435996.00
21	KSRRB M500- 15. Providing, laying **bituminousConcrete** using **40/60 THP** capacity H.M.P with Mechanical paver Gr-II(30mm to 45mm), crushed aggregates of specified grading premixed with 6% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade, rolling with wheeled , vibratory and tandeem rollers to achieve the desired density including all leads and lift cost of all materials, labour, HOM of machineries complete as per specifications MORTH Specification No.509 **(Page No 164., I.No.21.22.6 of KPWD S.R 2015-16).**								
		Cum							
	cross road-1 nearAttur lake								
	Ch: (0 - 63)		1	63	5.00	0.030	9.45		
	cross road-2 nearAttur lake								
	Ch: (0 - 56)		1	56	5.00	0.030	8.40		
	cross road-3 nearAttur lake								
	Ch: (0 - 116)								
	Ch: (0 - 84)								
	Ch: (84 - 116)		1	32	6.50	0.030	6.24		
	cross road-4 nearAttur lake								
	Ch: (0 - 51)		1	51	5.00	0.030	7.65		
	Resurfacing								
	cross road-3 nearAttur lake								
	Ch: (0 - 116)								
	Ch: (0 - 84)		1	84	5.00	0.030	1.26		
							33.00	9822.60	324145.80
	ROAD FURNITURES								
22	KSRRB M800-13. Providing and laying of **hot applied thermoplastic compound** 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 **(Page No 181., I.No.24.15 of KPWD S.R 2015-16).**								
	Edge line	Sqm							
	cross road-1 nearAttur lake								
	Ch: (0 - 63)		2	63	0.10		12.60		
	cross road-2 nearAttur lake								
	Ch: (0 - 56)		2	56	0.10		11.20		
	cross road-3 nearAttur lake								
	Ch: (0 - 116)								
	Ch: (0 - 84)								
	Ch: (84 - 116)		2	32	0.10		6.40		
	cross road-4 nearAttur lake								
	Ch: (0 - 51)		2	51	0.10		10.20		
	Resurfacing								
	cross road-3 nearAttur lake								

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Ch: (0 - 116)								
	Ch: (0 - 84)								
			2	84	0.10		1.68		
							42.08	473.04	19905.52
23	Cost towards Design Report and Detailed Estimate,PMC/Third party								4230236.48
24	**Cost of Plastic@ 8% of bitumen qty for BC**	**Kg**	1	372.24				27.00	42302.36
25	Cost towards DLP and contigencies								10050.48
26	Miscllenous and other charges								211511.82
									5898.85
	Grand Total								4500000.00

Certificate:-

1. That the workspot inspected by me and found work is necessary.
2. That the area comes with in the Bruhat Bangalore Mahanagara Palike Limits.
3. That the rates are adopted based on the PWD SR of 2015-16
4. That the provisions made in the estimate are necessary and quite essential.

Consultant:

For M/s MECADEZ CORE TECHNOLOGIES PVT LTD

Asst. Engineer
Ward No-03
BBMP

AEE
Yelhanka Sub Division
BBMP

Executive Engineer
Yelhanka Division
BBMP